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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-23-58** **Date: 16-05-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs And Maintenance of Existing Dry Waste Collection Centre Building at Palanahalli in Ward No 5.
Agency	:	Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.
Customer's Reference	:	BBMP/EE/BTP/WO/17/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	13-05-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-05-19

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SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	7875	8120	54.1	45.9	30-70
4	10 mm	3899	12019	80.1	19.9	10-35
5	4.75 mm	2588	14607	97.4	2.6	0-5
6	Pan	393	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-09-23-58** **Date: 16-05-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.38	–
5	Bulk Density(Compacted) (Kg/l)	1.45	–
6	Water Absorption(%)	0.22	–

Note:
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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-09-23-58** **Date: 16-05-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs And Maintenance of Existing Dry Waste Collection Centre Building at Palanahalli in Ward No 5.
Agency	:	Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.
Customer's Reference	:	BBMP/EE/BTP/WO/17/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-05-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	14-05-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.76	–
2	Finess by Air permeablity method (m^2/kg,Min)	292.1	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 11-06-19

Lab ID	:	**CP-2019-09-23-58**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs And Maintenance of Existing Dry Waste Collection Centre Building at Palanahalli in Ward No 5.
Agency	:	Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.
Customer's Reference	:	BBMP/EE/BTP/WO/17/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-05-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	14-05-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-23-58** **Date: 15-05-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs And Maintenance of Existing Dry Waste Collection Centre Building at Palanahalli in Ward No 5.
Agency	:	Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.
Customer Reference	:	BBMP/EE/BTP/WO/17/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-05-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-05-19

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SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2645	2943	58.9	41.1	25-55
4	4.75 mm	1811	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-09-23-58** **Date: 15-05-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.35	–
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-09-23-58** **Date: 15-05-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs And Maintenance of Existing Dry Waste Collection Centre Building at Palanahalli in Ward No 5.
Agency	:	Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.
Customer's Reference	:	BBMP/EE/BTP/WO/17/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-05-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	13-05-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	—	—	—	—
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-09-23-58

Date: 15-05-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-09-23-58**
		Date: 18-05-19
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs And Maintenance of Existing Dry Waste Collection Centre Building at Palanahalli in Ward No 5.
Agency	:	Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.
Customer's Reference	:	BBMP/EE/BTP/WO/17/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	17-05-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-09-23-58** **Date: 27/05/2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs And Maintenance of Existing Dry Waste Collection Centre Building at Palanahalli in Ward No 5.
Agency	:	Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.
Customer's Reference	:	BBMP/EE/BTP/WO/17/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-05-19
Customer ID	:	Culvert Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	20/05/2019	27/05/2019	150.71 X 151.46 X 149.89	22828	**8.015**	427.3	18.7	18.5
2	Culvert Concrete	M20	20/05/2019	27/05/2019	149.51 X 151.13 X 151.25	22595	**8.622**	426.4	18.9	
3	Culvert Concrete	M20	20/05/2019	27/05/2019	149.34 X 149.45 X 149.33	22319	**8.618**	402.3	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2019-09-23-58

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore. **Date: 17/06/2019**

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Repairs And Maintenance of Existing Dry Waste Collection Centre Building at Palanahalli in Ward No 5.

Agency : Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.

Customer's Reference : BBMP/EE/BTP/WO/17/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-05-19

Customer ID : Culvert Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	20/05/2019	17/06/2019	150.89 X 149.17 X 151.65	22508	8.828	527.2	23.4	23.2
2	Culvert Concrete	M20	20/05/2019	17/06/2019	150.71 X 151.46 X 149.06	22826	8.898	523.5	22.9	
3	Culvert Concrete	M20	20/05/2019	17/06/2019	149.26 X 149.70 X 150.40	22345	8.117	520.9	23.3	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No. CP/TF/01

Lab ID : CP-2019-09-23-58

Date: 27/05/2019

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Repairs And Maintenance of Existing Dry Waste Collection Centre Building at Palanahalli in Ward No 5.

Agency : Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.

Customer's Reference : BBMP/EE/BTP/WO/17/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-05-19

Customer ID : Culvert Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	20/05/2019	27/05/2019	149.96 X 151.71 X 151.06	22751	8.015	422.5	18.6	18.6
2	Culvert Concrete	M20	20/05/2019	27/05/2019	150.92 X 150.20 X 151.68	22668	8.622	430.1	19.0	
3	Culvert Concrete	M20	20/05/2019	27/05/2019	150.17 X 150.61 X 149.64	22618	8.618	414.1	18.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-09-23-58** **Date: 17/06/2019**

Customer : Assistant Executive Engineer. Byatarayanapura Sub Division. BBMP. Bangalore.

Address : Byatarayanapura Sub Division. BBMP. Bangalore.

Project Name : Repairs And Maintenance of Existing Dry Waste Collection Centre Building at Palanahalli in Ward No 5.

Agency : Sri.Narayana Rao S , No 597/60. B. Narayana Compound. N.Nagenahalli. Dr. Shivaramakaranthanagara Bangalore-560077.

Customer's Reference : BBMP/EE/BTP/WO/17/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-05-19

Customer ID : Culvert Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	20/05/2019	17/06/2019	151.67 X 150.76 X 151.97	22866	8.828	530.6	23.2	23.0
2	Culvert Concrete	M20	20/05/2019	17/06/2019	150.35 X 149.44 X 151.16	22468	8.898	498.1	22.2	
3	Culvert Concrete	M20	20/05/2019	17/06/2019	151.42 X 149.27 X 151.42	22603	8.117	536.5	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-09-23-58 **Date: 18/06/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Repairs And Maintenance of Existing Dry Waste Collection Centre Building at Palanahalli in Ward No 5.

Agency : Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.

Customer's Reference : BBMP/EE/BTP/WO/17/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-05-19

Customer ID : Flooring Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete	M20	21/05/2019	18/06/2019	150.04 X 149.35 X 151.78	22408	8.828	518.0	23.1	23.1
2	Flooring Concrete	M20	21/05/2019	18/06/2019	151.62 X 151.42 X 150.33	22959	8.898	523.3	22.8	
3	Flooring Concrete	M20	21/05/2019	18/06/2019	150.78 X 149.84 X 151.36	22592	8.117	526.6	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-09-23-58** **Date: 28/05/2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs And Maintenance of Existing Dry Waste Collection Centre Building at Palanahalli in Ward No 5.
Agency	:	Sri Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.
Customer's Reference	:	BBMP/EE/BTP/WO/17/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-05-19
Customer ID	:	Flooring Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete	M20	21/05/2019	28/05/2019	151.01 X 149.27 X 150.09	22542	8.015	410.0	18.2	18.5
2	Flooring Concrete	M20	21/05/2019	28/05/2019	149.49 X 150.73 X 151.41	22532	8.622	416.2	18.5	
3	Flooring Concrete	M20	21/05/2019	28/05/2019	149.27 X 149.55 X 149.97	22324	8.618	419.3	18.8	

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Lab ID : **CP-2019-09-23-58** **Date: 18/06/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Repairs And Maintenance of Existing Dry Waste Collection Centre Building at Palanahalli in Ward No 5.

Agency : Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.

Customer's Reference : BBMP/EE/BTP/WO/17/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-05-19

Customer ID : Flooring Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete	M20	21/05/2019	18/06/2019	151.68 X 150.83 X 151.12	22878	8.828	532.8	23.3	23.1
2	Flooring Concrete	M20	21/05/2019	18/06/2019	149.61 X 149.38 X 149.51	22349	8.898	513.5	23.0	
3	Flooring Concrete	M20	21/05/2019	18/06/2019	150.72 X 149.16 X 150.33	22481	8.117	519.2	23.1	

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Lab ID	:	**CP-2019-09-23-58** **Date: 28/05/2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs And Maintenance of Existing Dry Waste Collection Centre Building at Palanahalli in Ward No 5.
Agency	:	Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.
Customer's Reference	:	BBMP/EE/BTP/WO/17/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-05-19
Customer ID	:	Flooring Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete	M20	21/05/2019	28/05/2019	151.55 X 149.10 X 149.28	22595	**8.015**	421.2	18.6	
2	Flooring Concrete	M20	21/05/2019	28/05/2019	150.53 X 149.15 X 149.46	22452	**8.622**	413.9	18.4	18.7
3	Flooring Concrete	M20	21/05/2019	28/05/2019	150.07 X 150.26 X 151.47	22548	**8.618**	425.8	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/06/2019

Lab ID	:	**CP-2019-09-23-58**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs And Maintenance of Existing Dry Waste Collection Centre Building at Palanahalli in Ward No 5.
Agency	:	Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.
Customer's Reference	:	BBMP/EE/BTP/WO/17/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-05-19
Customer ID	:	Flooring Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete	M20	21/05/2019	18/06/2019	150.80 X 151.30 X 151.57	22815	8.828	543.5	23.8	23.5
2	Flooring Concrete	M20	21/05/2019	18/06/2019	151.56 X 151.84 X 150.42	23013	8.898	526.0	22.9	
3	Flooring Concrete	M20	21/05/2019	18/06/2019	151.73 X 150.92 X 150.71	22900	8.117	548.4	23.9	

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TEST REPORT OF CERAMIC TILES

Lab ID	:	**CP-2019-09-23-58** **Date: 28-05-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs And Maintenance of Existing Dry Waste Collection Centre Building at Palanahalli in Ward No 5.
Agency	:	Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.
Customer's Reference	:	BBMP/EE/BTP/WO/17/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-05-19
Sample Type/ Size	:	Ceramic tiles (400X400)mm
Reference to BIS codes	:	IS 13630 (part 1) : 2006, IS 15622:2006
Date of test	:	24-05-19

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	400	400	400	400	20.04	20.01	20.08	20.04
2	400	400	400	400	20.01	20.07	20.01	20.01
3	400	400	400	400	20.03	20.05	20.06	20.03
4	400	400	400	400	20.06	20.05	20.08	20.06
5	400	400	400	400	20.08	20.06	20.05	20.08
6	400	400	400	400	20.03	20.07	20.07	20.07
7	400	400	400	400	20.08	20.05	20.08	20.07
8	400	400	400	400	20.02	20.05	20.04	20.05
9	400	400	400	400	20.04	20.04	20.02	20.04
10	400	400	400	400	20.04	20.01	20.05	20.04
Average	400		300		20.05			

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TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1406	1455	3.49	2.85
2	1424	1464	2.81	
3	1464	1498	2.32	
4	1408	1454	3.27	
5	1434	1468	2.37	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	400	400	20.04	14.8	14.66
2	400	400	20.06	14.2	
3	401	400	2002	14.9	
4	400	400	20.06	14.8	
5	400	400	20.05	14.6	

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